

Notice of Allowability

Application No.

09/752,884

Examiner

Naghmeh Mehrpour

Applicant(s)

LEUNG ET AL.

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 07/20/06.
2. ☒ The allowed claim(s) is/are 1-27.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 7/26/06
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

MELODY MEHRPOUR
PATENT EXAMINER

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed reference listed in the Information Disclosure Submitted on 07/20/06 have been considered by the examiner (see attached PTO-1449

Allowable Subject Matter

2. **Claims 1-27**, are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding **claims 1, 22-24**, the present application teaches in a foreign Agent a method of registering a mobile device with a Home Agent in an asymmetric Link environment Methods and apparatus for registering a mobile device such as a mobile node or mobile router with a Home Agent in an asymmetric link environment. A Foreign Agent associates each of one or more interfaces of the Foreign Agent with a different care-of address. An agent advertisement including the care-of address for the one or more interfaces of the Foreign Agent is then sent via one or more uplinks. A registration request is received via a downlink router. The registration request identifies a care-of address associated with one of the one or more interfaces of the Foreign Agent. One of the interfaces identified by the care-of address is ascertained, thereby identifying the interface to which the mobile device has roamed. The registration request is forwarded to the Home Agent. A registration reply is received from the Home

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Agent. The registration reply is then forwarded to the mobile device via the ascertained interface as specifically mentioned on claims 22-24.

The closest prior art to the present application such as Rai et al. (US Patent 6,393,482) teaches an inter-working function selection system in a coupled data network is disclosed. The coupled data network includes a foreign network and a home network. The foreign network includes a foreign mobile switching center with a serving registration server. The home network includes a home mobile switching center with a home registration server and a plurality of unassigned home inter-working functions. A first end system is a subscriber to the home network and operates within the foreign network. The first end system includes an end registration agent to form a registration request, the end registration agent sending the registration request through the serving registration server to the home registration server, the home registration server including a module to select an active home inter-working function from the plurality of unassigned home inter-working functions based on the registration request.

Rai does not teach a method wherein associating a different care-of-address with each interference of the foreign Agent or identifying only one interface of the Foreign Agent in a registration request or registration reply as specifically mentioned on claims 1, 22-24.

. Aquirre fails to teach a system includes a multi-zone audio system controller having an audio input/output selection circuit for selectively regulating the source and distribution of audio signals. A

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plurality of handheld connector docks are distributed about the multi-zone system. Each connector dock is in communication with the audio system controller. The connector docks include a connector port, engagable to the handheld device, for communicating music/data/commands between the handheld device and the system controller. A plurality in-wall audio controllers are also distributed about the multi-zone system. Each in-wall controller is in communication with the audio system controller, and includes an input circuit for selective input of commands to regulate operation of the system controller and/or the handheld device. The handheld connector docks are operative to transfer music/data/commands between the audio system controller and a handheld device disposed within the connector dock as specifically mentioned on claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any responses to this action should be mailed to:

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Naghmeh Mehrpour whose telephone number is 571-272-7913. The examiner can normally be reached on 8:00- 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nick Corsaro be reached (571) 272-7876.

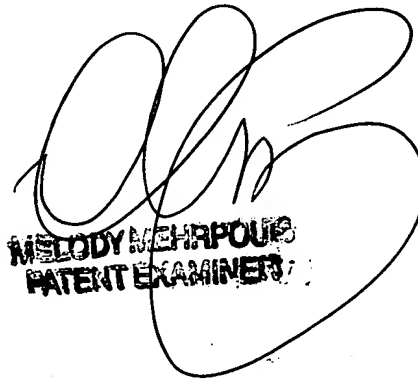
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The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NM

September 15, 2006



MELODY MEHRPOUR
PATENT EXAMINER